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OM protein - protein search, using sw model

Run on: August 4, 2003, 15:31:01 : Search time 14.527 Seconds  
(without alignments)  
923.283 Million cell updates/sec

Title: US-09-865-363-13

Perfect score: 1685  
Sequence: 1 MRRASRDYTKYLKSGSEMG.....LDPDQATYFGAFKVRDID 317

Scoring table:

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: Issued\_Patents\_AA.\*  
2: /cgn2\_6/ptodata/1/1aa/5A-COMB.pep.\*  
3: /cgn2\_6/ptodata/1/1aa/5B-COMB.pep.\*  
4: /cgn2\_6/ptodata/1/1aa/6A-COMB.pep.\*  
5: /cgn2\_6/ptodata/1/1aa/6B-COMB.pep.\*  
6: /cgn2\_6/ptodata/1/1aa/PCTUS-COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1685	100.0	317	3	US-08-996-139-13 Sequence 13, Appl
2	1685	100.0	317	3	US-08-995-659-13 Sequence 13, Appl
3	1685	100.0	317	3	US-09-215-649A-13 Sequence 13, Appl
4	1685	100.0	317	4	US-09-052-521C-4 Sequence 4, Appl
5	1685	100.0	317	4	US-09-577-780-13 Sequence 13, Appl
6	1685	100.0	317	4	US-09-577-800-13 Sequence 13, Appl
7	1685	100.0	317	4	US-09-466-496-13 Sequence 13, Appl
8	1685	100.0	317	4	US-09-871-856-13 Sequence 13, Appl
9	1685	100.0	317	4	US-08-842-842-7 Sequence 13, Appl
10	1417.5	84.1	316	2	US-08-989-362-2 Sequence 7, Appl
11	1417.5	84.1	316	3	US-09-052-521C-2 Sequence 2, Appl
12	1417.5	84.1	316	4	US-09-671-658A-2 Sequence 2, Appl
13	1417.5	84.1	316	4	US-08-996-139-11 Sequence 11, Appl
14	1326.5	78.7	294	3	US-08-995-659-11 Sequence 11, Appl
15	1326.5	78.7	294	3	US-09-215-649A-11 Sequence 11, Appl
16	1326.5	78.7	294	4	US-09-577-780-11 Sequence 11, Appl
17	1326.5	78.7	294	4	US-09-577-800-11 Sequence 11, Appl
18	1326.5	78.7	294	4	US-09-466-496-11 Sequence 11, Appl
19	1326.5	78.7	294	4	US-09-871-856-11 Sequence 11, Appl
20	1326.5	78.7	294	4	US-09-871-291-11 Sequence 11, Appl
21	1326.5	78.7	294	4	US-09-632-287A-11 Sequence 11, Appl
22	418	24.8	77	4	US-09-632-287A-10 Sequence 3, Appl
23	363	21.5	77	4	US-09-072-993C-3 Sequence 2, Appl
24	251.5	14.9	279	4	US-08-670-354-2 Sequence 1, Appl
25	251.5	14.9	281	1	US-08-584-031-1 Sequence 1, Appl
26	251.5	14.9	281	3	US-08-780-496-1 Sequence 1, Appl
27	251.5	14.9	281	3	US-08-780-496-1 Sequence 1, Appl

28	251.5	14.9	281	3	US-08-883-086-10 Sequence 10, Appl
29	251.5	14.9	281	3	US-09-320-424-2 Sequence 2, Appl
30	251.5	14.9	281	4	US-09-333-553A-6 Sequence 6, Appl
31	251.5	14.9	281	4	US-09-137-864-11 Sequence 11, Appl
32	251.5	14.9	281	4	US-09-825-563-2 Sequence 66, Appl
33	251.5	14.9	281	4	US-10-039-785-66 Sequence 2, Appl
34	251.5	14.9	281	5	PCT-US96-10895-2 Sequence 6, Appl
35	248	14.7	291	1	US-08-670-354-6 Sequence 6, Appl
36	248	14.7	291	3	US-09-320-424-6 Sequence 6, Appl
37	248	14.7	291	5	PCT-US96-10895-6 Sequence 6, Appl
38	248	14.7	291	5	PCT-US96-10895-6 Sequence 11, Appl
39	236.5	14.0	253	4	US-09-320-424-11 Sequence 11, Appl
40	236.5	14.0	253	4	US-09-825-563-11 Sequence 13, Appl
41	236.5	14.0	256	3	US-09-320-424-13 Sequence 13, Appl
42	236.5	14.0	256	4	US-09-825-563-13 Sequence 13, Appl
43	232.5	13.8	161	4	US-09-565-423-7 Sequence 7, Appl
44	231.5	13.7	177	3	US-09-105-343A-7 Sequence 7, Appl
45	226.5	13.4	183	3	US-09-105-343A-8 Sequence 8, Appl

## ALIGNMENTS

RESULT 1  
US-08-996-139-13  
Sequence 13, Application US/08996139  
Patent No. 6017729  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
APPLICANT: Galibert, Laurent  
APPLICANT: Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/996,139  
FILING DATE: 22 DECEMBER 1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 60/064,671  
FILING DATE: 14 OCTOBER 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-996-139-13

Query Match 100.0%; Score 1685; DB 3; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1.8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60  
1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60  
Db 1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60

QY 61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120  
61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120  
Db 61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120

QY 121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180  
121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180  
Db 121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180

QY 181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240  
181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240  
Db 181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240

QY 241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300  
241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300  
Db 241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300

QY 301 PDODATYFGAFKVRDID 317  
301 PDODATYFGAFKVRDID 317  
Db 301 PDODATYFGAFKVRDID 317

RESULT 2  
US-08-995-659-13  
Sequence 13, Application US/08995659  
Patent No. 6242213

GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
APPLICANT: Galibert, Laurent  
APPLICANT: Maraskovsky, Eugene  
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/995,659  
FILING DATE: 22 DECEMBER 1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 60/064,671  
FILING DATE: 14 OCTOBER 1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2852-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430

TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-995-659-13

Query Match 100.0%; Score 1685; DB 3; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1.8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60  
1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60  
Db 1 MRRASRDYTYLKRSEEMGGPGAPHGGPLHAPPAPHOPPAASRSMEFALLGLGLGV 60

QY 61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120  
61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120  
Db 61 VCSVALFFYFRAQMDPRISSEDGTHCIYRILRLHENDFODTTLESODTKLIPSCRRK 120

QY 121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180  
121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180  
Db 121 QAFGAVQKELQHVGSQHIRAEKAMVDSWDLAKRSKLEAOPFAHLTINADIPSGSH 180

QY 181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240  
181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240  
Db 181 KVSLSWYHDGNAKISNMTFNSGKLIYNODGFYLLANICFRHHTSGDLATEYLQMW 240

QY 241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300  
241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300  
Db 241 VYTKTSIKIPSSHTLMKGSSTKYWSNSEFHFYSINVGFFKLSGGEISIEVSNPSLLD 300

QY 301 PDODATYFGAFKVRDID 317  
301 PDODATYFGAFKVRDID 317  
Db 301 PDODATYFGAFKVRDID 317

RESULT 3  
US-09-215-649A-13  
Sequence 13, Application US/09215649A  
Patent No. 6271349

GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
APPLICANT: Galibert, Laurent  
APPLICANT: Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/215,649A  
FILING DATE: 17-Dec-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/996,139  
FILING DATE: <Unknown>  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne

REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-215-649A-13

Query Match 100.0%; Score 1685; DB 3; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1,8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYKLGSEEMGCGPGAPHEGPLHAPPAPPAHOPPAASRSMFVALLGLGGOV 60  
DB 1 MRRASRDYTKYKLGSEEMGCGPGAPHEGPLHAPPAPPAHOPPAASRSMFVALLGLGGOV 60  
QY 61 VCSVALFEYFRAMDPNRISEDGTHCIYRILRLHENDFODTTLESODTKLIPDSCKRIK 120  
DB 61 VCSVALFEYFRAMDPNRISEDGTHCIYRILRLHENDFODTTLESODTKLIPDSCKRIK 120  
QY 121 QAFQGAQVKELQHVGSQHIRAEKAWYDGSWDLAKRSKLEAOPFAHLLTNATDIPSGSH 180  
DB 121 QAFQGAQVKELQHVGSQHIRAEKAWYDGSWDLAKRSKLEAOPFAHLLTNATDIPSGSH 180  
QY 181 KVSLSWYHNRGNAKISNMTPFSGKLIYNODGEFYLYANICFRHHETSGDLATEYQLMW 240  
DB 181 KVSLSWYHNRGNAKISNMTPFSGKLIYNODGEFYLYANICFRHHETSGDLATEYQLMW 240  
QY 241 YVTKTSIKIPSSHILMGSGSTKYWGSNSEHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
DB 241 YVTKTSIKIPSSHILMGSGSTKYWGSNSEHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
QY 301 PDODATYFGAFKVRDID 317  
DB 301 PDODATYFGAFKVRDID 317

RESULT 4  
US-09-052-521C-4  
Sequence 4, Application US/09052521C  
Patent No. 6316408  
GENERAL INFORMATION:  
APPLICANT: Boyle, William J.  
FILE OF INVENTION: Osteoprotegerin Binding Proteins and Receptors  
TITLE REFERENCE: A-451Bv  
CURRENT APPLICATION NUMBER: US/09/052,521C  
CURRENT FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 08/880,855  
PRIOR FILING DATE: 1997-06-23  
PRIOR APPLICATION NUMBER: 08/842,842  
PRIOR FILING DATE: 1997-04-16  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 4  
LENGTH: 317  
TYPE: PRT  
ORGANISM: Human  
US-09-052-521C-4

Query Match 100.0%; Score 1685; DB 4; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1,8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYKLGSEEMGCGPGAPHEGPLHAPPAPPAHOPPAASRSMFVALLGLGGOV 60  
DB 1 MRRASRDYTKYKLGSEEMGCGPGAPHEGPLHAPPAPPAHOPPAASRSMFVALLGLGGOV 60

QY 61 VCSVALFEYFRAMDPNRISEDGTHCIYRILRLHENDFODTTLESODTKLIPDSCKRIK 120  
DB 61 VCSVALFEYFRAMDPNRISEDGTHCIYRILRLHENDFODTTLESODTKLIPDSCKRIK 120  
QY 121 QAFQGAQVKELQHVGSQHIRAEKAWYDGSWDLAKRSKLEAOPFAHLLTNATDIPSGSH 180  
DB 121 QAFQGAQVKELQHVGSQHIRAEKAWYDGSWDLAKRSKLEAOPFAHLLTNATDIPSGSH 180  
QY 181 KVSLSWYHNRGNAKISNMTPFSGKLIYNODGEFYLYANICFRHHETSGDLATEYQLMW 240  
DB 181 KVSLSWYHNRGNAKISNMTPFSGKLIYNODGEFYLYANICFRHHETSGDLATEYQLMW 240  
QY 241 YVTKTSIKIPSSHILMGSGSTKYWGSNSEHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
DB 241 YVTKTSIKIPSSHILMGSGSTKYWGSNSEHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
QY 301 PDODATYFGAFKVRDID 317  
DB 301 PDODATYFGAFKVRDID 317

RESULT 5  
US-09-577-780-13  
Sequence 13, Application US/09577780  
Patent No. 6419929  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Maraskovsky, Eugene

TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/577,780  
FILING DATE: 24-May-2000  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/995,659  
FILING DATE: <Unknown>  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996

ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2852-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644

INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-577-780-13

Query Match 100.0%; Score 1685; DB 4; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1,8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	MRASBDYRKTYLNGSEMEGCGGAPHEGHLNPPRAPHOPPAARSRSFVALLGLGQV	60
Db	1 MRASBDYRKTYLNGSEMEGCGGAPHEGHLNPPRAPHOPPAARSRSFVALLGLGQV	60
QY	VCSVALFEYFRAMODPNRISDGTGCIYKILNHEMADFODTTLESODTKLIPDCRRIK	120
Db	61 VCSVALFEYFRAMODPNRISDGTGCIYKILNHEMADFODTTLESODTKLIPDCRRIK	120
QY	QAGQGAOVOKELQHTIVSQHIRAEKMAVDOSWIDLAKRSKLEAOPRAHLTNATIDPSSGH	180
Db	121 QAGQGAOVOKELQHTIVSQHIRAEKMAVDOSWIDLAKRSKLEAOPRAHLTNATIDPSSGH	180
QY	QAGQGAOVOKELQHTIVSQHIRAEKMAVDOSWIDLAKRSKLEAOPRAHLTNATIDPSSGH	180
Db	121 QAGQGAOVOKELQHTIVSQHIRAEKMAVDOSWIDLAKRSKLEAOPRAHLTNATIDPSSGH	180
QY	KVSLSSMYHDHGRMAKISNMTFSSNGKLIYNQDSFYLYIANICPRHHETSGLDLEYDLMV	240
Db	181 KVSLSSMYHDHGRMAKISNMTFSSNGKLIYNQDSFYLYIANICPRHHETSGLDLEYDLMV	240
QY	KVSLSSMYHDHGRMAKISNMTFSSNGKLIYNQDSFYLYIANICPRHHETSGLDLEYDLMV	240
Db	181 KVSLSSMYHDHGRMAKISNMTFSSNGKLIYNQDSFYLYIANICPRHHETSGLDLEYDLMV	240
QY	YVTKTSTIKIIPSSHTLLKKGSTKYWGSNSFEHFYYSINVGAFPKLRSGEISLIEVSNPSLLD	300
Db	241 YVTKTSTIKIIPSSHTLLKKGSTKYWGSNSFEHFYYSINVGAFPKLRSGEISLIEVSNPSLLD	300
QY	PDODATYFGAFKVRDID 317	
Db	301 PDODATYFGAFKVRDID 317	

RESULT 6  
US-09-577-800-13  
Sequence 13, Application US/09577800  
Patent No. 6479635  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
APPLICANT: Galibert, Laurent  
APPLICANT: Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/577, 800  
FILING DATE: 24-MAY-2000  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/996,139  
FILING DATE: 22 DECEMBER 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 60/064,671  
FILING DATE: 14 OCTOBER 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:

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; LENGTH: 317 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
US-09-577-800-13

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Query Match	100.0%;	Score 1685;	DB 4;	Length 317;
Best Local Similarity	100.0%;	Pred. No. 1.8e-163;		
Matches 317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	MRASADYTKYLIRGSEMGCGGAGNEERPLNRRPARNQPRASRSQFVALLGLGIGY	60
Db	1	MRASADYTKYLIRGSEMGCGGAGNEERPLNRRPARNQPRASRSQFVALLGLGIGY	60
QY	61	VCSVALFFFRQMPNRISEDTGTCYIRILRNENADFODTLESODTKILPDSCKRIK	120
Db	61	VCSVALFFFRQMPNRISEDTGTCYIRILRNENADFODTLESODTKILPDSCKRIK	120
QY	121	QAFQAGVQKELHIVQSOQHIRAEKAMVQSWIDLAKRSKLEAPFANLITNATDIPSGSH	180
Db	121	QAFQAGVQKELHIVQSOQHIRAEKAMVQSWIDLAKRSKLEAPFANLITNATDIPSGSH	180
QY	181	KVSLSSWYHIDRCMAKTSNMTFENCKLIYNQOGFYLLANICFRRHNHSGDLATEYLOLMV	240
Db	181	KVSLSSWYHIDRCMAKTSNMTFENCKLIYNQOGFYLLANICFRRHNHSGDLATEYLOLMV	240
QY	241	YVTKTSIKIIPSSHITLMKGGSTKYWGSGNSEFHFYISINVGGFKRLSGEISISVNSPILSD	300
Db	241	YVTKTSIKIIPSSHITLMKGGSTKYWGSGNSEFHFYISINVGGFKRLSGEISISVNSPILSD	300
QY	301	PODDATYFGAFKYVRD 317	
Db	301	PODDATYFGAFKYVRD 317	

RESULT 7  
US-09-466-496-13  
Sequence 13, Application US/09466496  
Patent No. 6528482  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galbert, Laurent  
Maskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/466,486  
FILING DATE: 17-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/996,139  
FILING DATE: 22 DECEMBER 1997  
APPLICATION NUMBER: USSN 60/064,671  
FILING DATE: 14 OCTOBER 1997  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693

REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-466-496-13

Query Match 100.0%; Score 1685; DB 4; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1.8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGRLHAPPAPHPAPPAASRSMFVALLGLGLGV 60  
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGRLHAPPAPHPAPPAASRSMFVALLGLGLGV 60  
QY 61 VCSVALFFFRACMDPNRISSEDGTHCIYRLRLHENDFODTTLESODTKLIPDSRRIK 120  
DB 61 VCSVALFFFRACMDPNRISSEDGTHCIYRLRLHENDFODTTLESODTKLIPDSRRIK 120  
QY 121 QAFGAVOKELQIHIVGSHIRAEKAWVDSWDLAKRSKLEAFPALHTINATDIPSGSH 180  
DB 121 QAFGAVOKELQIHIVGSHIRAEKAWVDSWDLAKRSKLEAFPALHTINATDIPSGSH 180  
QY 181 KVSLSWYHDGKAKISNMTPFNSGKLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
DB 181 KVSLSWYHDGKAKISNMTPFNSGKLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
QY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
QY 301 PPODATYFGAFKVRDID 317  
DB 301 PPODATYFGAFKVRDID 317

RESULT 8  
US-09-871-856-13  
Sequence 13, Application US/09871856  
Patent No. 6537763  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/871,856  
FILING DATE: 31-May-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/996,139  
FILING DATE: <Unknown>  
APPLICATION NUMBER: USN 08/813,509  
FILING DATE: 07 MARCH 1997

APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-871-856-13

Query Match 100.0%; Score 1685; DB 4; Length 317;  
Best Local Similarity 100.0%; Pred. No. 1.8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGRLHAPPAPHPAPPAASRSMFVALLGLGLGV 60  
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGRLHAPPAPHPAPPAASRSMFVALLGLGLGV 60  
QY 61 VCSVALFFFRACMDPNRISSEDGTHCIYRLRLHENDFODTTLESODTKLIPDSRRIK 120  
DB 61 VCSVALFFFRACMDPNRISSEDGTHCIYRLRLHENDFODTTLESODTKLIPDSRRIK 120  
QY 121 QAFGAVOKELQIHIVGSHIRAEKAWVDSWDLAKRSKLEAFPALHTINATDIPSGSH 180  
DB 121 QAFGAVOKELQIHIVGSHIRAEKAWVDSWDLAKRSKLEAFPALHTINATDIPSGSH 180  
QY 181 KVSLSWYHDGKAKISNMTPFNSGKLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
DB 181 KVSLSWYHDGKAKISNMTPFNSGKLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
QY 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
DB 241 VYTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSINVGCFKLRSGEISIEVSNPSLLD 300  
QY 301 PPODATYFGAFKVRDID 317  
DB 301 PPODATYFGAFKVRDID 317

RESULT 9  
US-09-871-291-13  
Sequence 13, Application US/09871291  
Patent No. 6562948  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/871,291  
FILING DATE: 30-May-2001  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/996,139  
FILING DATE: <Unknown>  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-871-291-13

Query Match 100.0%; Score 1685; DB 4; Length 317;  
Best Local Similarity 100.0%; Pired. No. 1.8e-163;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRRASRDYTKYLRSSEMGSGPGAPHEGPHLHAPPAPHPAPPAASRSMEFVALGLGLGOV 60  
DB 1 MRRASRDYTKYLRSSEMGSGPGAPHEGPHLHAPPAPHPAPPAASRSMEFVALGLGLGOV 60  
QY 61 VCSVALFFFRQADPNRISDGTGHCYRILRLHENDFQDTLESODTKLIPSCRRIK 120  
DB 61 VCSVALFFFRQADPNRISDGTGHCYRILRLHENDFQDTLESODTKLIPSCRRIK 120  
QY 121 QAFQAVQKELQHIYVSGHIREKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSGS 180  
DB 121 QAFQAVQKELQHIYVSGHIREKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSGS 180  
QY 181 KVSLSWYHDSGMKISMTFSNGKLIYNODGFYLLANICFRHETSGDLATEYLQMV 240  
DB 181 KVSLSWYHDSGMKISMTFSNGKLIYNODGFYLLANICFRHETSGDLATEYLQMV 240  
QY 241 VYTKSIKIPSSHTLMKSGSTKYSGNSEFHYISINVGFFKLRSGEISIEVSNPSLLD 300  
DB 241 VYTKSIKIPSSHTLMKSGSTKYSGNSEFHYISINVGFFKLRSGEISIEVSNPSLLD 300  
QY 301 PPDQATYGFARFVRDID 317  
DB 301 PPDQATYGFARFVRDID 317

RESULT 10  
US-08-842-842-7  
Sequence 7, Application US/08842842  
Patent No. 5843678  
GENERAL INFORMATION:  
APPLICANT: Boyle, William J.  
TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Amgen Inc.  
STREET: 1840 Dehavilland Drive  
CITY: Thousand Oaks  
STATE: California  
COUNTRY: USA  
ZIP: 91230-1789  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
ATTORNEY/AGENT INFORMATION:

APPLICATION NUMBER: US/08/842,842  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Winter, Robert B.  
REFERENCE/DOCKET NUMBER: A-451  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 316 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-842-842-7

Query Match 84.1%; Score 1417.5; DB 2; Length 316;  
Best Local Similarity 84.3%; Pired. No. 3.3e-136;  
Matches 268; Conservative 16; Mismatches 31; Indels 3; Gaps 2;

QY 1 MRRASRDYTKYLRSSEMGSGPGAPHEGPHLHAPPAPHPAPPAASRSMEFVALGLGLGOV 59  
DB 1 MRRASRDYTKYLRSSEMGSGPGAPHEGPHLHAPPAPHPAPPAASRSMEFVALGLGLGOV 60  
QY 60 VCSVALFFFRQADPNRISDGTGHCYRILRLHENDFQDTLESODTKLIPSCRRIK 119  
DB 61 VCSVALFFFRQADPNRISDGTGHCYRILRLHENDFQDTLESODTKLIPSCRRIK 118  
QY 120 KOAFQAVQKELQHIYVSGHIREKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSGS 179  
DB 119 KOAFQAVQKELQHIYVSGHIREKAMVDGSLDLAKRSKLEAPFAHLTINATDIPSGS 178  
QY 180 KVSLSWYHDSGMKISMTFSNGKLIYNODGFYLLANICFRHETSGDLATEYLQMV 239  
DB 179 KVSLSWYHDSGMKISMTFSNGKLIYNODGFYLLANICFRHETSGDLATEYLQMV 238  
QY 240 VYTKSIKIPSSHTLMKSGSTKYSGNSEFHYISINVGFFKLRSGEISIEVSNPSLL 299  
DB 239 VYTKSIKIPSSHTLMKSGSTKYSGNSEFHYISINVGFFKLRSGEISIEVSNPSLL 298  
QY 300 PPDQATYGFARFVRDID 317  
DB 299 PPDQATYGFARFVRDID 316

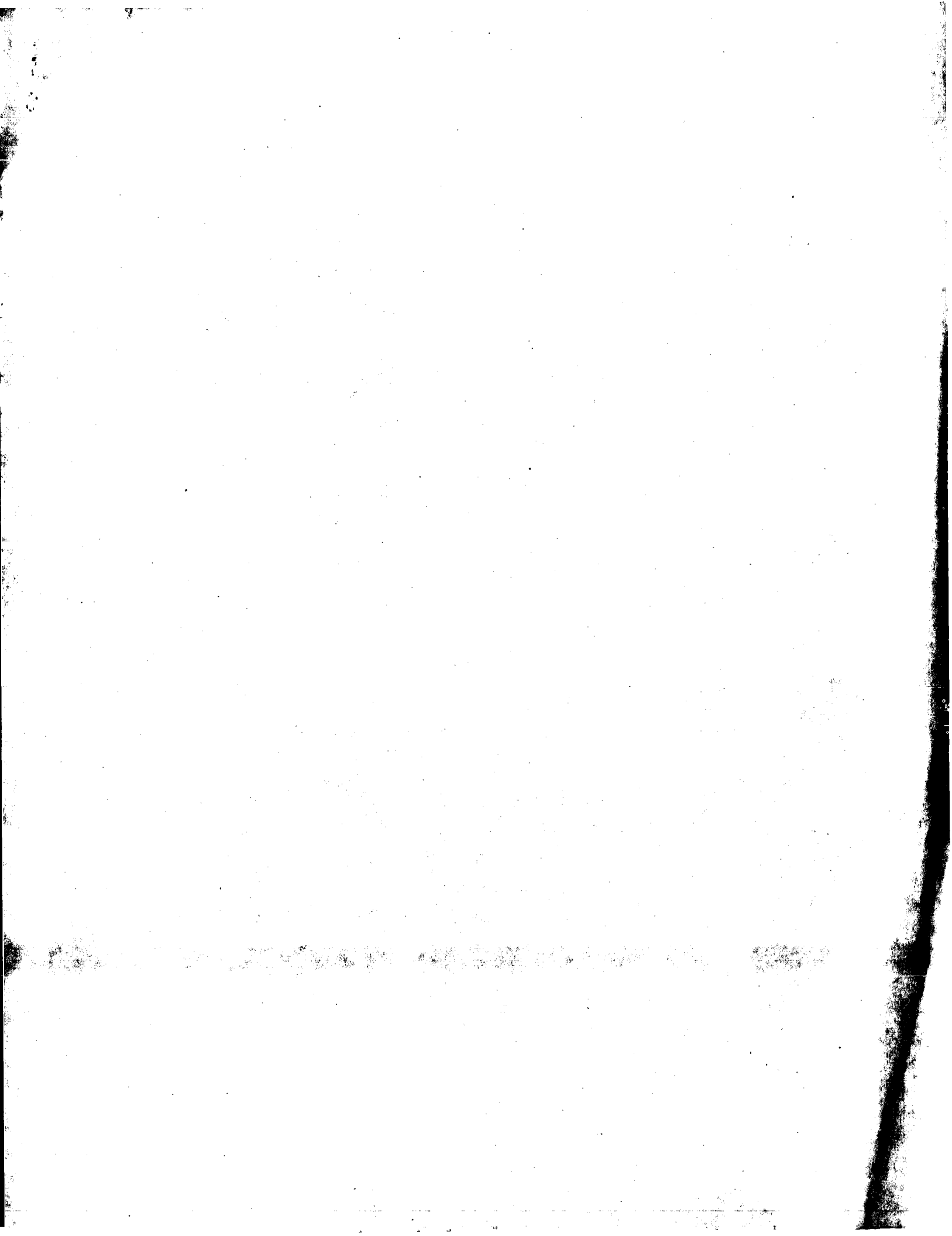
RESULT 11  
US-08-989-362-2  
Sequence 2, Application US/08989362  
Patent No. 6242586  
GENERAL INFORMATION:  
APPLICANT: Gorman, Daniel M.  
TITLE OF INVENTION: Mammalian Cell Surface Antigens; Related  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: DNAX Research Institute  
STREET: 901 California Avenue  
CITY: Palo Alto  
STATE: California  
COUNTRY: USA  
ZIP: 94304-1104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/989,362  
FILING DATE: 12-DEC-1997  
CLASSIFICATION: 56  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/032,846  
FILING DATE: 13-DEC-1996  
ATTORNEY/AGENT INFORMATION:











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OM protein - protein search, using sw model

Run on: August 4, 2003, 15:34:06 ; Search time 35.2799 seconds

(without alignments)  
1067.091 Million cell updates/sec

Title: US-09-865-363-13

Perfect score: 1685

Sequence: 1 MRRASRDYTKYLKRGSEEMGCG.....LLDPDQATYGAFAKVRDID 317

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA:\*

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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*

3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*

4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep:\*

6: /cgn2\_6/ptodata/2/pubpaa/PCUS\_PUBCOMB.pep:\*

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9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep:\*

10: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:\*

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14: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep:\*

15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*

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17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*

18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1685	100.0	317	9	US-09-871-856-13
3	1685	100.0	317	10	US-09-877-650-13
4	1685	100.0	317	15	US-10-218-547-22
5	1417.5	84.1	316	11	US-09-079-569-7
6	1417.5	84.1	316	14	US-10-017-910-4
7	1417.5	84.1	316	15	US-10-105-057-2
8	1417.5	84.1	316	15	US-10-272-411-19
9	1417.5	84.1	316	15	US-10-272-328A-19
10	1326.5	78.7	294	9	US-09-871-856-11
11	1326.5	78.7	294	10	US-09-877-650-11
12	1293	76.7	245	14	US-10-017-910-2
13	852	50.6	160	10	US-09-779-050A-15
14	790	46.9	170	11	US-09-791-153A-76
15	768	45.6	160	10	US-09-779-050A-14

16	538	31.9	109	9	US-09-911-777-8	Sequence 8, Appl1
17	538	31.9	109	15	US-10-045-574A-8	Sequence 8, Appl1
18	418	24.8	77	16	US-10-286-696-11	Sequence 11, Appl
19	363	21.5	77	14	US-10-286-696-10	Sequence 10, Appl
20	251.5	14.9	279	14	US-10-066-209-3	Sequence 3, Appl1
21	251.5	14.9	281	8	US-08-916-625B-6	Sequence 6, Appl1
22	251.5	14.9	281	8	US-08-916-625B-6	Sequence 6, Appl1
23	251.5	14.9	281	9	US-09-813-329-17	Sequence 17, Appl
24	251.5	14.9	281	9	US-09-193-663-8	Sequence 8, Appl1
25	251.5	14.9	281	10	US-09-934-465-1	Sequence 1, Appl1
26	251.5	14.9	281	11	US-09-919-039-118	Sequence 118, App
27	251.5	14.9	281	13	US-10-039-785-66	Sequence 66, Appl
28	251.5	14.9	281	14	US-10-011-125-4	Sequence 4, Appl1
29	251.5	14.9	281	14	US-10-001-054-54	Sequence 54, Appl
30	251.5	14.9	281	15	US-10-093-766-54	Sequence 54, Appl
31	251.5	14.9	281	15	US-10-174-654-11	Sequence 11, Appl
32	251.5	14.9	281	15	US-10-151-882-41	Sequence 41, Appl
33	251.5	14.9	281	15	US-10-218-547-20	Sequence 20, Appl
34	248	14.7	291	14	US-10-017-910-6	Sequence 6, Appl1
35	244	14.5	246	9	US-09-855-544A-13	Sequence 13, Appl
36	232.5	13.8	166	10	US-09-779-050A-16	Sequence 16, Appl
37	232.5	13.8	168	10	US-09-900-530A-10	Sequence 10, Appl
38	228	13.5	296	15	US-10-185-425-5	Sequence 5, Appl1
39	227.5	13.5	172	10	US-09-779-050A-17	Sequence 17, Appl
40	223.5	13.3	164	14	US-10-116-378-25	Sequence 25, Appl
41	210	12.5	39	11	US-09-791-153A-77	Sequence 77, Appl
42	205	12.2	39	11	US-09-791-153A-79	Sequence 79, Appl
43	189	11.2	281	8	US-08-971-317A-6	Sequence 6, Appl1
44	189	11.2	281	9	US-09-802-669-25	Sequence 25, Appl
45	189	11.2	281	9	US-09-193-663-6	Sequence 6, Appl1

## ALIGNMENTS

RESULT 1

US-09-813-329-7

Sequence 7, Application US/09813329

Patent No. US20020012968A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: NO. US20020012968A1el Drosophila Tumor Necrosis Factor Class M

FILE OF INVENTION: Variants Thereof

FILE REFERENCE: D0016.nd

CURRENT APPLICATION NUMBER: US/09/813,329

PRIOR FILING DATE: 2001-03-20

PRIOR APPLICATION NUMBER: 60/190,816

PRIOR FILING DATE: 2000-03-21

NUMBER OF SEQ ID NOS: 65

SOFTWARE: PatentIn version 3.0

SEQ ID NO 7

LENGTH: 317

TYPE: PRT

ORGANISM: Drosophila melanogaster

US-09-813-329-7

Query Match 100.0% Score 1685; DB 9; Length 317;

Best Local Similarity 100.0%; Pred. No. 9.9e-156;

Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB	1	MRRASRDYTKYLKRGSEEMGCGPAPHECPPLAPPAPPAASRSNFVLLIGIGOV	60
QY	61	VCSSVLFYFRAQMDPNRISDEGHCYIRLRLEHNDFOFTLESODTKLIPSCRRK	120
DB	61	VCSSVLFYFRAQMDPNRISDEGHCYIRLRLEHNDFOFTLESODTKLIPSCRRK	120
QY	121	QAFQAVKQELQHYGSHIRAEKAMVDGSLDLAKSKSLAEQFAHLLTNATDIPSGSH	180
DB	121	QAFQAVKQELQHYGSHIRAEKAMVDGSLDLAKSKSLAEQFAHLLTNATDIPSGSH	180
QY	181	KVSLSSWYHGRGMAKISMNFTSGNKLIVNDGFYLYLVANICFRHHTSGDLATEYQLMW	240

DB 181 KVSLSWYHDBGMKISNMTFSGNGLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
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DB 241 YVTKTSIKIPSSHTLMKGGSTKYWSGNSFHFYSINVGCFKLSGGEISTEVSNSPLD 300  
QY 301 PPODATYFGAFKVRDID 317  
DB 301 PPODATYFGAFKVRDID 317

RESULT 2  
US-09-871-856-13  
Sequence 13, Application US/09871856  
Patent No. US20020081720A1  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Maraskovsky, Eugene  
TITLE OF INVENTION: Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/871,856  
FILING DATE: 31-May-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/996,139  
FILING DATE: <Unknown>  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2851-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-871-856-13

Query Match 100.0%; Score 1685; DB 9; Length 317;  
Best Local Similarity 100.0%; Pred. No. 9,9e-156;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MRRASRDYTKYLKSGSEMGSGPGAPHGGPLHAPPPAPHPAPASRSKMFVALLGLGLGV 60  
DB 1 MRRASRDYTKYLKSGSEMGSGPGAPHGGPLHAPPPAPHPAPASRSKMFVALLGLGLGV 60  
QY 61 VCSVALFFYFRAQMDPNRISDGTGHCYRIILRLHENDFODTTLESODTKLIPDSCKRIK 120  
DB 61 VCSVALFFYFRAQMDPNRISDGTGHCYRIILRLHENDFODTTLESODTKLIPDSCKRIK 120

QY 121 QAFQAVOKELQHTVSGSHIRAEKAMYDGSWLDLAKRSKLEADPFALTTINATDIPSGSH 180  
DB 121 QAFQAVOKELQHTVSGSHIRAEKAMYDGSWLDLAKRSKLEADPFALTTINATDIPSGSH 180  
QY 181 KVSLSWYHDBGMKISNMTFSGNGLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
DB 181 KVSLSWYHDBGMKISNMTFSGNGLIYNODGFYLLANICFRHHETSGDLATEYLQLMV 240  
QY 241 YVTKTSIKIPSSHTLMKGGSTKYWSGNSFHFYSINVGCFKLSGGEISTEVSNSPLD 300  
DB 241 YVTKTSIKIPSSHTLMKGGSTKYWSGNSFHFYSINVGCFKLSGGEISTEVSNSPLD 300  
QY 301 PPODATYFGAFKVRDID 317  
DB 301 PPODATYFGAFKVRDID 317

RESULT 3  
US-09-877-650-13  
Sequence 13, Application US/09877650  
Patent No. US20020169117A1  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Maraskovsky, Eugene  
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/877,650  
FILING DATE: 08-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/995,659  
FILING DATE: 1997-12-22  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2852-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 317 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-09-877-650-13

Query Match 100.0%; Score 1685; DB 10; Length 317;  
Best Local Similarity 100.0%; Pred. No. 9,9e-156;  
Matches 317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MRRASRDYTKYLKSGSEMGSGPGAPHGGPLHAPPPAPHPAPASRSKMFVALLGLGLGV 60  
DB 1 MRRASRDYTKYLKSGSEMGSGPGAPHGGPLHAPPPAPHPAPASRSKMFVALLGLGLGV 60

Qy	61	VCSVALEFFYFAQMDPNRISDGDTHCIRILRLHENMDFQDTTLESODTKILPSCRIK	120
Dp	61	VCSVALEFFYFAQMDPNRISDGDTHCIRILRLHENMDFQDTTLESODTKILPSCRIK	120
Qy	121	QAFGCAVOKELQIHVGSCHIRAEKAMVDGSLDLAKSKLEAOPFAHLTTNATDIPSGSH	180
Dp	121	QAFGCAVOKELQIHVGSCHIRAEKAMVDGSLDLAKSKLEAOPFAHLTTNATDIPSGSH	180
Qy	181	KVLSLSMWHDRCMAKISNMFPSNCKLTYNOCGFYLVANICFRHHETSGDLATYLOLV	240
Dp	181	KVLSLSMWHDRCMAKISNMFPSNCKLTYNOCGFYLVANICFRHHETSGDLATYLOLV	240
Qy	241	VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEHFYISINVGFEFKLSGGEISIEVSNPSLD	300
Dp	241	VYVTKTSIKIPSSHTLMKGGSTKYWSGNSEHFYISINVGFEFKLSGGEISIEVSNPSLD	300
Qy	301	PDODATYFGAKFVRDID 317	
Dp	301	PDODATYFGAKFVRDID 317	

```

RESULT 4
US-10-218-547-22
: Sequence 22, Application US/10218547
: Publication No. US20030100074A1
: GENERAL INFORMATION:
: APPLICANT: Human Genome Sciences, Inc.
: TITLE OF INVENTION: Methods And Compositions For Treating Metabolic Bone Diseases Rel
: TITLE OF INVENTION: Human Endocrine Alpha
: FILE REFERENCE: PFS61
: CURRENT APPLICATION NUMBER: US/10/218,547
: CURRENT FILING DATE: 2002-08-15
: PRIOR APPLICATION NUMBER: 60/312,542
: PRIOR FILING DATE: 2001-08-16
: PRIOR APPLICATION NUMBER: 60/330,761
: PRIOR FILING DATE: 2001-10-30
: NUMBER OF SEQ ID NOS: 57
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 22
: LENGTH: 317
: TYPE: prt
: ORGANISM: human
: US-10-218-547-22

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Query Match	100.0%	Score 1685;	DB 15;	Length 317;
Best Local Similarity	100.0%	Pred. No. 9.9e-156;		
Matches 317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MRASRDYTKYLRGSEEMGGCGPGARHNEGPLAAPPPAPHPAPPAASRSFMVALLGLGCOV	60	
Db	1	MRASRDYTKYLRGSEEMGGCGPGARHNEGPLAAPPPAPHPAPPAASRSFMVALLGLGCOV	60	
QY	61	VCSVALFFFYRAQMDPNRISEDGTHCIYRILRLHENADEFODTTLESODTKLIPSCRRIK	120	
Db	61	VCSVALFFFYRAQMDPNRISEDGTHCIYRILRLHENADEFODTTLESODTKLIPSCRRIK	120	
QY	121	QAPGAVOKELQHTVGSOHTRAEKAMVDSWLDLAKRSKLEAQPRAHLITNATDIPSSH	180	
Db	121	QAPGAVOKELQHTVGSOHTRAEKAMVDSWLDLAKRSKLEAQPRAHLITNATDIPSSH	180	
QY	181	KVSLSSWYHDRGMAKISNMTFSNGKLIYNQGGFYLYANIEFFRHNETSGDLATEYLQAMV	240	
Db	181	KVSLSSWYHDRGMAKISNMTFSNGKLIYNQGGFYLYANIEFFRHNETSGDLATEYLQAMV	240	
QY	241	VYVTKTSIKIPSSHILMKGGSTKRYWSGNSSEHFYSINVGGFPLKRGSEISIEVSNPSLLD	300	
Db	241	VYVTKTSIKIPSSHILMKGGSTKRYWSGNSSEHFYSINVGGFPLKRGSEISIEVSNPSLLD	300	
QY	301	PDODATYFGAKRVARDID 317		
Db	301	PDODATYFGAKRVARDID 317		

```

1      RESULT 5
2      US-09-079-569-7
3      ; Sequence 7, Application US/09079569
4      ; Publication No. US2003010485A1
5      ; GENERAL INFORMATION:
6      ; APPLICANT: Boyle, William J.
7      ; TITLE OF INVENTION: OSTEOPROTEGERIN BINDING PROTEINS
8      ; NUMBER OF SEQUENCES: 7
9      ; CORRESPONDENCE ADDRESS:
10     ; ADDRESSEE: Amgen Inc.
11     ; STREET: 1840 Dehavenland Drive
12     ; CITY: Thousand Oaks
13     ; STATE: California
14     ; COUNTRY: USA
15     ; ZIP: 91230-1789
16     ; COMPUTER READABLE FORM:
17     ; MEDIUM TYPE: Floppy disk
18     ; COMPUTER: IBM PC compatible
19     ; OPERATING SYSTEM: PC-DOS/MS-DOS
20     ; SOFTWARE: PatentIn Release #1.0, Version #1.30
21     ; CURRENT APPLICATION DATA:
22     ; APPLICATION NUMBER: US/09/079,569
23     ; FILING DATE:
24     ; CLASSIFICATION:
25     ; PRIOR APPLICATION DATA:
26     ; APPLICATION NUMBER: 08/842,842
27     ; FILING DATE:
28     ; ATTORNEY/AGENT INFORMATION:
29     ; NAME: Winter, Robert B.
30     ; REFERENCE/DOCKET NUMBER: A-451
31     ; INFORMATION FOR SEQ ID NO: 7:
32     ; SEQUENCE CHARACTERISTICS:
33     ; LENGTH: 316 amino acids
34     ; TYPE: amino acid
35     ; TOPOLOGY: linear
36     ; MOLECULE TYPE: protein
37     ; US-09-079-569-7

```

Query Match	Score	DB	Length
Best Local Similarity	84.18;	1417.5;	316;
	84.38;	Pred. No. 1.1e-129;	

	Matches	268; Conservative	16; Mismatches	31; Indels	3; Gaps	2
QY	1	MRRASRDYTKYLRGSEEMGGCGPAGHEEPLH-AAPPAPHPAPASRSMEVALLGLGLGQ	59			
Db	1	MRRASRDYTKYLRSEEMGGCGPAGHEEPLHAPASAPAPAPAPASRSMEVALLGLGLGQ	60			
QY	60	VVCYSALFFYTRACMDPNRISEDTGHCYIRLRLEHNDQFDTLESODTKLIPDSCRRI	119			
Db	61	VVCSTALFLYTRACMDPNRISEDTGHCYIRLRLEHNDQFDTLESODTKLIPDSCRRI	118			
QY	120	KQAFQGAQVKELOHTIVGSONHIAEAKAWDGSWLDLAKRSKLEAPQPAHLITINATDIPSSG	179			
Db	119	KQAFQGAQVKELOHTIVGPOPRFSGAPARMMEGSLDVAQKCPRAQFPALHTINASTIPSS	178			
QY	180	HKVSLSSWYHDSRGMAKISNMTFSNGKRLYVNDGFYLYLANICFRHHETSGDLATEYLQLM	239			
Db	179	HKVTLSSWYHDSRGMAKISNMTLSNCKRLRVNDGFFYLYLANICFRHHETSGSPVTDLQLM	238			
QY	240	VYVYTKTSKIPSSHTLMKGGSTKTVYSGNSEFHYFISYINNGCFPKLRSGEETISLEVSNPSSL	299			
Db	239	VYVYTKTSKIPSSHTLMKGGSTKKNNGNSEFHYFISYINNGCFPKLRAGEISLQVSNPSSL	298			
QY	300	DPDDQATYFGAFKAYDID	317			
Db	299	DPDDQATYFGAFKYDID	316			

RESULT 6  
US-10-017-910-4  
; Sequence 4, Application US/10017910C  
; Publication No. US20020159970A1  
; GENERAL INFORMATION:

APPLICANT: Choi, Yongwon  
Mong, Brian  
Jostien, Regis  
Steinman, Ralph  
TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY  
INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING SAM  
METHODS OF USE THEREOF  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Klauber & Jackson  
STREET: 411 Hackensack Avenue, 4th floor  
CITY: Hackensack  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07601  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/017,910  
FILING DATE: 14-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/447,035  
FILING DATE: 1999-11-22  
ATTORNEY/AGENT INFORMATION:  
NAME: Jackson Esq., David A.  
REGISTRATION NUMBER: 26,742  
REFERENCE/DOCKET NUMBER: 600-1-200  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-487-5800  
TELEFAX: 201-343-1684  
TELEX: 133521  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 316 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-10-017-910-4  
Query Match 84.1%; Score 1417.5; DB 14; Length 316;  
Best Local Similarity 84.3%; Pred. No. 1.1e-129;  
Matches 268; Conservative 16; Mismatches 31; Indels 3; Gaps 2;  
QY 1 MRRASRDYTKYLRSGSEMGSGPGAPHEGPHL-APPAPAPHPAPASRSMFALLGLGIGQ 59  
1 MRRASRDYTKYLRSGSEMGSGPGAPHEGPHL-APPAPAPHPAPASRSMFALLGLGIGQ 60  
QY 60 VVCSVALFFYFRACMDPNRISSEDGTHCIRILRLHENAFODTTLESODTKLIPDSGRI 119  
119 VVCSIALFLYFRACMDPNRISSEDGTHCIRILRLHENAFODTTLESODTKLIPDSGRI 118  
QY 120 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 179  
179 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 178  
QY 119 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 178  
178 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 179  
QY 180 HKVLSWYHDHGRGAKTSNMFTSGSKLIVNODGFYLYANICFRHHETSGDLATEYLQLM 239  
239 HKVLSWYHDHGRGAKTSNMFTSGSKLIVNODGFYLYANICFRHHETSGDLATEYLQLM 238  
QY 240 VYVTKTSIKIPSSHTLKKGSGTKWGSNFEHFYSINVGGEFFKLRSGEISIEVSNPSLL 299  
299 VYVTKTSIKIPSSHTLKKGSGTKWGSNFEHFYSINVGGEFFKLRSGEISIEVSNPSLL 298  
QY 300 DPDDATYFGAFKVDID 317  
317 DPDDATYFGAFKVDID 316  
DB 299 DPDDATYFGAFKVDID 316

RESULT 7  
US-10-105-057-2  
Sequence 2, Application US/10105057  
Publication No. US20030013651A1  
GENERAL INFORMATION:  
APPLICANT: Barnes-Jewish Hospital, d/b/a The Jewish Hospital of St. Louis  
TITLE OF INVENTION: STIMULATION OF OSTEOGENESIS USING RANK LIGAND FUSION PROTEINS  
REFERENCE: RICH 10054.1  
CURRENT APPLICATION NUMBER: US/10/105,057  
CURRENT FILING DATE: 2002-03-22  
PRIOR APPLICATION NUMBER: US 60/277,855  
PRIOR FILING DATE: 2001-03-22  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 2  
LENGTH: 316  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-105-057-2  
Query Match 84.1%; Score 1417.5; DB 15; Length 316;  
Best Local Similarity 84.3%; Pred. No. 1.1e-129;  
Matches 268; Conservative 16; Mismatches 31; Indels 3; Gaps 2;  
QY 1 MRRASRDYTKYLRSGSEMGSGPGAPHEGPHL-APPAPAPHPAPASRSMFALLGLGIGQ 59  
1 MRRASRDYTKYLRSGSEMGSGPGAPHEGPHL-APPAPAPHPAPASRSMFALLGLGIGQ 60  
QY 60 VVCSVALFFYFRACMDPNRISSEDGTHCIRILRLHENAFODTTLESODTKLIPDSGRI 119  
119 VVCSIALFLYFRACMDPNRISSEDGTHCIRILRLHENAFODTTLESODTKLIPDSGRI 118  
QY 120 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 179  
179 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 178  
QY 119 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 178  
178 KQAFQAVQKELQIHVGSQHRRAKAVDGSMDLARSKLEAPFAHLITINADIPSGS 179  
QY 180 HKVLSWYHDHGRGAKTSNMFTSGSKLIVNODGFYLYANICFRHHETSGDLATEYLQLM 239  
239 HKVLSWYHDHGRGAKTSNMFTSGSKLIVNODGFYLYANICFRHHETSGDLATEYLQLM 238  
QY 240 VYVTKTSIKIPSSHTLKKGSGTKWGSNFEHFYSINVGGEFFKLRSGEISIEVSNPSLL 299  
299 VYVTKTSIKIPSSHTLKKGSGTKWGSNFEHFYSINVGGEFFKLRSGEISIEVSNPSLL 298  
QY 300 DPDDATYFGAFKVDID 317  
317 DPDDATYFGAFKVDID 316  
DB 299 DPDDATYFGAFKVDID 316  
RESULT 8  
US-10-272-411-19  
Sequence 19, Application US/10272411  
Publication No. US20030100068A1  
GENERAL INFORMATION:  
APPLICANT: Barnes Jewish Hospital  
APPLICANT: Lam, Jonathan  
APPLICANT: Ross, F. Patrick  
APPLICANT: Teitelbaum, Steven  
TITLE OF INVENTION: RANKL KINICS AND USES THEREOF  
FILE REFERENCE: 60019620-0202  
CURRENT APPLICATION NUMBER: US/10/272,411  
CURRENT FILING DATE: 2002-10-15  
PRIOR APPLICATION NUMBER: 60/329,393  
PRIOR FILING DATE: 2001-10-15  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 19  
LENGTH: 316  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-272-411-19  
Query Match 84.1%; Score 1417.5; DB 15; Length 316;

Best Local Similarity 84.3%, Pred. No. 1.1e-129;  
Matches 268: Conservative 16; Mismatches 31; Indels 3; Gaps 2;

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QY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGFLH-APPAPAPHPAPASRSMFVALLGLGQ 59
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGFLHAPAPAPAPASRSMFVALLGLGQ 60
QY 60 VVCSYALFFYFRAQMDPNRISSEDGTHCIYRILRLHENAPODTTLESODTKLIPDSCRI 119
DB 61 VVCSYALFFYFRAQMDPNRISSEDGTHCIYRILRLHENAPODTTLESODTKLIPDSCRI 118
QY 120 KAPFGAVOKELQHYVGSQHIRAKAWDGSMLDAKRSKLEAPFAHLTINATDIPSGS 179
DB 119 KAPFGAVOKELQHYVGSQHIRAKAWDGSMLDAKRSKLEAPFAHLTINATDIPSGS 178
QY 180 HKVLSLSSWYHDSGMKAKISNMTFSGNKLIVNODGFYLYANICFRHHETSGDLATEYLQ 239
DB 179 HKVLSLSSWYHDSGMKAKISNMTLNSGKLRVNDGYYLYANICFRHHETSGSVPTDYLO 238
QY 240 VYVTKTSIKTIPSSHTLMKGGSTKYWSGNSSEFHFYSINVGCFKLRSGEISIVSNPSL 299
DB 239 VYVTKTSIKTIPSSHTLMKGGSTKYWSGNSSEFHFYSINVGCFKLRSAGEISIVSNPSL 298
QY 300 DPQDATTYFGAFKVRDID 317
DB 299 DPQDATTYFGAFKVRDID 316

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## RESULT 9

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US-10-272-328A-19
: Sequence 19, Application US/10272328A
: Publication No. US20030109444A1
: GENERAL INFORMATION:
: APPLICANT: Barnes Jewish Hospital
: APPLICANT: Lam, Jonathan
: APPLICANT: Ross, F. Patrick
: TITLE OF INVENTION: RANKL MIMICS AND USES THEREOF
: FILE REFERENCE: 60019620-0206
: CURRENT APPLICATION NUMBER: US/10/272,328A
: PRIOR FILING DATE: 2003-01-24
: PRIOR APPLICATION NUMBER: 60/329,393
: NUMBER OF SEQ ID NOS: 51
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 19
: LENGTH: 316
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-272-328A-19

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Query Match 84.1%, Score 1417.5; DB 15; Length 316;  
Best Local Similarity 84.3%, Pred. No. 1.1e-129;

Matches 268: Conservative 16; Mismatches 31; Indels 3; Gaps 2;

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QY 1 MRRASRDYTKYLRGSEEMGGPGAPHEGFLH-APPAPAPHPAPASRSMFVALLGLGQ 59
DB 1 MRRASRDYTKYLRGSEEMGGPGAPHEGFLHAPAPAPAPASRSMFVALLGLGQ 60
QY 60 VVCSYALFFYFRAQMDPNRISSEDGTHCIYRILRLHENAPODTTLESODTKLIPDSCRI 119
DB 61 VVCSYALFFYFRAQMDPNRISSEDGTHCIYRILRLHENAPODTTLESODTKLIPDSCRI 118
QY 120 KAPFGAVOKELQHYVGSQHIRAKAWDGSMLDAKRSKLEAPFAHLTINATDIPSGS 179
DB 119 KAPFGAVOKELQHYVGSQHIRAKAWDGSMLDAKRSKLEAPFAHLTINATDIPSGS 178
QY 180 HKVLSLSSWYHDSGMKAKISNMTFSGNKLIVNODGFYLYANICFRHHETSGDLATEYLQ 239
DB 179 HKVLSLSSWYHDSGMKAKISNMTLNSGKLRVNDGYYLYANICFRHHETSGSVPTDYLO 238
QY 240 VYVTKTSIKTIPSSHTLMKGGSTKYWSGNSSEFHFYSINVGCFKLRSAGEISIVSNPSL 299
DB 239 VYVTKTSIKTIPSSHTLMKGGSTKYWSGNSSEFHFYSINVGCFKLRSAGEISIVSNPSL 298

```

DB 239 VYVTKTSIKTIPSSHTLMKGGSTKYWSGNSSEFHFYSINVGCFKLRSAGEISIVSNPSL 298

QY 300 DPQDATTYFGAFKVRDID 317  
DB 299 DPQDATTYFGAFKVRDID 316

## RESULT 10

```

US-09-871-856-11
: Sequence 11, Application US/09871856
: Patent No. US20020081720A1
: GENERAL INFORMATION:
: APPLICANT: Anderson, Dick M.
: Galibert, Laurent
: Maraskovsky, Eugene
: TITLE OF INVENTION: Receptor Activator of NF-kappaB
: NUMBER OF SEQUENCES: 19
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Immunex Corporation, Law Department
: STREET: 51 University Street
: CITY: Seattle
: STATE: WA
: COUNTRY: USA
: ZIP: 98101

```

```

: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: Apple Power Macintosh
: OPERATING SYSTEM: Apple Operating System 7.5.5
: SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/871,856
: FILING DATE: 31-May-2001
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/996,139
: FILING DATE: <Unknown>
: APPLICATION NUMBER: USSN 08/813,509
: FILING DATE: 07 MARCH 1997
: APPLICATION NUMBER: USSN 08/772,330
: FILING DATE: 23 DECEMBER 1996

```

```

: ATTORNEY/AGENT INFORMATION:
: NAME: Perkins, Patricia Anne
: REGISTRATION NUMBER: 34,693
: REFERENCE/DOCKET NUMBER: 2851-A
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (206)587-0430
: TELEFAX: (206)233-0644
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 294 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: SEQUENCE DESCRIPTION: SEQ ID NO: 11:

```

US-09-871-856-11

Query Match 78.7%, Score 1326.5; DB 9; Length 294;  
Best Local Similarity 84.5%, Pred. No. 7.1e-121;

Matches 250: Conservative 16; Mismatches 27; Indels 3; Gaps 2;

```

QY 23 GAPHEGFLH-APPAPAPHPAPASRSMFVALLGLGQVCSVALFFYFRAQMDPNRIS 81
DB 1 GVPHEGFLHAPAPAPAPAPASRSMFVALLGLGQVCSVALFFYFRAQMDPNRIS 60
QY 82 DGTCHYRILRLHENAPODTTLESODTKLIPDSCRIKAPFGAVOKELQHYVGSQHIR 141
DB 61 DSTCHYRILRLHENAPODTTLESODTKLIPDSCRIKAPFGAVOKELQHYVGSQHIR 138
QY 142 AEKAWDGSMLDAKRSKLEAPFAHLTINATDIPSGSHKVSLSWYHDSGMKAKISNMTF 201
DB 119 GAPAMGEGSMVDAORCKPEAQPFALHTINATDIPSGSHKVSLSWYHDSGMKAKISNMTL 178
QY 202 SNGKLIYNODGFYLYANICFRHHETSGDLATEYLQLVVYVTKTSIKTIPSSHTLMKGGST 261

```

DB 179 SNGKSLVNDGFFYYLXANICFRHHETSGSVPTDYLQIMVYVTKTSIKIPSSHNLMKGST 238  
QY 262 KYWGSNSEHFHFYSINVGFFKLRSGEISIEVSNPSLLDPDQATYFGAFKVRDID 317  
239 KMWGSNSEHFHFYSINVGFFKLRSGEISIEVSNPSLLDPDQATYFGAFKVRDID 294

## RESULT 11

US-09-877-650-11  
Sequence 11, Application US/09877650  
Patent No. US2002016917A1  
GENERAL INFORMATION:  
APPLICANT: Anderson, Dirk M.  
Galibert, Laurent  
Marskovsky, Eugene  
TITLE OF INVENTION: Ligand for Receptor Activator of NF-kappaB  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunex Corporation, Law Department  
STREET: 51 University Street  
CITY: Seattle  
STATE: WA  
COUNTRY: USA  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Apple Power Macintosh  
OPERATING SYSTEM: Apple Operating System 7.5.5  
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/877,650  
FILING DATE: 08-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/995,659  
FILING DATE: 1997-12-22  
APPLICATION NUMBER: USSN 08/813,509  
FILING DATE: 07 MARCH 1997  
APPLICATION NUMBER: USSN 08/772,330  
FILING DATE: 23 DECEMBER 1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Patricia Anne  
REGISTRATION NUMBER: 34,693  
REFERENCE/DOCKET NUMBER: 2852-A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)587-0430  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 294 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
US-09-877-650-11

Query Match 78.7%; Score 1326.5; DB 10; Length 294;  
Best Local Similarity 84.5%; Pred. No. 7.1e-121;  
Matches 250; Conservative 16; Mismatches 27; Indels 3; Gaps 2;

QY 23 GAPHEGPLH-APPAPAPHPAPASRSMFALLGLGLGVVCSVALFFEFRAQMDPNRISE 81  
DB 1 GVPHEGPLHAPAPAPAPAPASRSMFALLGLGLGVVCSVALFFEFRAQMDPNRISE 60  
QY 82 DGHCIYRILRLHENAFODTTLESODTKLIPDSCRRIRKQAFQGAVOKELOHIVGSQHIR 141  
DB 61 DSTHCFYRILRLHENAFODTTLESODTKLIPDSCRRIRKQAFQGAVOKELOHIVGSQHIR 118  
QY 142 AKAWVDSWLDLAKRSKLEAOPFAHLITNATDIPSGSHKYSLSWYHDDRGMAKISNNTF 201  
DB 119 GAPAMGESSWLDVAKRGPEAPFAHLITNATDIPSGSHKYSLSWYHDDRGMAKISNNTL 178

QY 202 SNGKLIYNDGFFYYLXANICFRHHETSGDLATEYLQIMVYVTKTSIKIPSSHTLMKGST 261  
DB 179 SNGKLIYNDGFFYYLXANICFRHHETSGSVPTDYLQIMVYVTKTSIKIPSSHNLMKGST 238  
QY 262 KYWGSNSEHFHFYSINVGFFKLRSGEISIEVSNPSLLDPDQATYFGAFKVRDID 317  
239 KMWGSNSEHFHFYSINVGFFKLRSGEISIEVSNPSLLDPDQATYFGAFKVRDID 294

## RESULT 12

US-10-017-910-2  
Sequence 2, Application US/10017910  
Publication No. US20020159970A1  
GENERAL INFORMATION:  
APPLICANT: Choi, Yongwon  
Wong, Brian  
Josien, Regis  
Steinman, Ralph  
TITLE OF INVENTION: A PROTEIN BELONGING TO THE TNF SUPERFAMILY  
INVOLVED IN SIGNAL TRANSDUCTION, NUCLEIC ACIDS ENCODING  
METHODS OF USE THEREOF  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Klauber & Jackson  
STREET: 411 Hackensack Avenue, 4th Floor  
CITY: Hackensack  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07601  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/017,910  
FILING DATE: 14-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/447,035  
FILING DATE: 1999-11-22  
ATTORNEY/AGENT INFORMATION:  
NAME: Jackson Esq., David A.  
REGISTRATION NUMBER: 26,742  
REFERENCE/DOCKET NUMBER: 600-1-200  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-487-5800  
TELEFAX: 201-343-1684  
TELEX: 135521  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 245 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-017-910-2

Query Match 76.7%; Score 1293; DB 14; Length 245;  
Best Local Similarity 99.6%; Pred. No. 1e-117;  
Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 73 QMDPNRISEDTGTHCIYRILRLHENAFODTTLESODTKLIPDSCRRIRKQAFQGAVOKELO 132  
DB 1 QMDPNRISEDTGTHCIYRILRLHENAFODTTLESODTKLIPDSCRRIRKQAFQGAVOKELO 60  
QY 133 HIVGSQHIRAKAWVDSWLDLAKRSKLEAOPFAHLITNATDIPSGSHKYSLSWYHDDRG 192  
DB 61 HIVGSQHIRAKAWVDSWLDLAKRSKLEAOPFAHLITNATDIPSGSHKYSLSWYHDDRG 120  
QY 193 WAKISNNTFSGKLIYNDGFFYYLXANICFRHHETSGDLATEYLQIMVYVTKTSIKIPSS 252  
DB 121 WAKISNNTFSGKLIYNDGFFYYLXANICFRHHETSGDLATEYLQIMVYVTKTSIKIPSS 180



QY 253 HTLMKSGSTKYWGSNSEFHFYSINVGFFKLRSGEISTEVSNPISLDDPDATYFGAKR 312  
DB 181 HTLMKSGSTKYWGSNSEFHFYSINVGFFKLRSGEISTEVSNPISLDDPDATYFGAKR 240  
QY 313 VRDID 317  
DB 241 VRDID 245

## RESULT 13

US-09-779-050A-15  
; Sequence 15, Application US/09779050A  
; Patent No. US20020160416A1  
; GENERAL INFORMATION:  
; APPLICANT: BOYLE, WILLIAM  
; APPLICANT: HSU, HAILING  
; TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY  
; FILE REFERENCE: A-570B  
; CURRENT APPLICATION NUMBER: US/09/779, 050A  
; PRIOR FILING DATE: 2001-02-12  
; PRIOR APPLICATION NUMBER: 60/181,800  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 15  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-779-050A-15

Query Match  
Best Local Similarity 50.6%; Score 852; DB 10; Length 160;  
Matches 160; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 158 SKLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 217  
DB 1 SKLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 60  
QY 218 ANICFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSIN 277  
DB 61 ANICFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSIN 120  
QY 278 GFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 317  
DB 121 GFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 160

## RESULT 14

US-09-791-153A-76  
; Sequence 76, Application US/09791153A  
; Publication No. US20030103978A1  
; GENERAL INFORMATION:  
; APPLICANT: Deshpande, Rajendra  
; APPLICANT: Hitz, Anna  
; APPLICANT: Boyle, William  
; APPLICANT: Sullivan, John  
; TITLE OF INVENTION: SELECTIVE BINDING AGENTS OF OSTEOPROTEGERIN BINDING PROTEIN  
; FILE REFERENCE: A-633A  
; CURRENT APPLICATION NUMBER: US/09/791,153A  
; PRIOR FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: 09/511,139  
; NUMBER OF SEQ ID NOS: 154  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 76  
; LENGTH: 170  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-791-153A-76

Query Match  
Best Local Similarity 46.9%; Score 790; DB 11; Length 170;  
Matches 91.4%; Pred. No. 5.6e-69;

Matches 148; Conservative 5; Mismatches 9; Indels 0; Gaps 0;  
QY 156 KRSKLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 215  
DB 9 KRSKLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 68  
QY 216 LYANICFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSI 275  
DB 69 LYANICFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSI 128  
QY 276 NVGGFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 317  
DB 129 NVGGFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 170

## RESULT 15

US-09-779-050A-14  
; Sequence 14, Application US/09779050A  
; Patent No. US20020160416A1  
; GENERAL INFORMATION:  
; APPLICANT: BOYLE, WILLIAM  
; APPLICANT: HSU, HAILING  
; TITLE OF INVENTION: RECEPTOR FROM TNF FAMILY  
; FILE REFERENCE: A-570B  
; CURRENT APPLICATION NUMBER: US/09/779, 050A  
; PRIOR FILING DATE: 2001-02-12  
; PRIOR APPLICATION NUMBER: 60/181,800  
; NUMBER OF SEQ ID NOS: 52  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 14  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-779-050A-14

Query Match  
Best Local Similarity 45.6%; Score 768; DB 10; Length 160;  
Matches 143; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 159 KLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 218  
DB 2 KLEAOPFAHLTINATDIPSGSHKVSLSWYHDSGMKISNMTFSNGKLIYNODGFYLY 61  
QY 219 NICEFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSIN 278  
DB 62 NICEFRHETSGDLATEYLQMLVYVTKTSIKIPSSHTLMKGGSTKYWGSNSEFHFYSIN 121  
QY 279 GFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 317  
DB 122 GFFKLRSGEISTEVSNPISLDDPDATYFGAKRVYDID 160

Search completed: August 4, 2003, 15:45:56  
Job time : 36.2799 secs

